

(4) On page 5, line 19, "optical surface of the" has been deleted in order to correct an error in the originally filed specification.

(5) On page 5, line 20, "thermally conductive" has been deleted in order to correct an error in the originally filed specification.

Support for the amendments to the claims

The Applicants have made the following amendments to the claims:

(1) Claims 1-4 and 7-9 were amended to refer to a first and a second thermally conductive material to remove a possible ambiguity.

(2) In claims 3, 4, 8, and 9, "beryllia" (a compound of beryllium) has been changed to "beryllium" to be more accurate.

(3) Claims 3, 4, 8, 9, 12, and 17 have been amended to correct a drafting error and are now in correct Markush form.

(4) The claims have been amended to recite a "heat sink" rather than a "slug." Support for this amendment can be found on page 4, line 3 of the specification.

(5) Claims 12 and 17 have been amended to recite that the reflective surface of the reflector cup is selected from the listed materials. Please see page 6, lines 1-3 of the specification for support for this amendment.

(6) Amended claims 13 and 18 and new claim 25 include a dielectric stack. Please see page 6, line 3 of the specification for support for this amendment.

(7) Other claim amendments were made for clarity, to correct errors in the originally filed claims, and in some cases to broaden the claims.

Support for the new claims

New claims 20-30 have been added to the application:

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(1) New claims 20-26 reflect the fact that the addition of a lens is optional. Page 4, lines 9-10 of the specification state that "an optical lens 20 may be added by mounting a pre-molded thermoplastic lens ..." Therefore, the lens is optional.

(2) New claims 27 and 29 have been added to include the list of thermally conductive materials that the reflector cup may be made from, as listed in the specification (see page 5, lines 18-22 of the specification).

(3) New claims 28 and 30 have been added to recite a reflector cup that includes a thermally insulating material (see page 5, lines 22-23 of the specification for support).

The 102(b) and 103(a) claim rejections

The Examiner rejected claims 1 and 2 under 35 U.S.C. 102(b) as anticipated by U.S. Patent Number 6,084,252 to Isokawa et al. ("Isokawa"). The Examiner rejected claims 5 and 6 under 35 U.S.C. 103(a) as obvious in view of Isokawa.

The Examiner stated that in Isokawa "the thick portion of the lead 1 below the LED 3 acts as a thermal slug." (See page 2 of the Office Action). Claims 1 and 20, the independent claims, each now require metal leads and a heat sink separate from the metal leads.

Therefore, independent claims 1 and 20 are patentable over Isokawa, which does not have a heat sink separate from the metal leads.

Since independent claims 1 and 20 are patentable over the references, dependent claims 2-10, 12-15, 17-19, and 21-30 are patentable for at least the same reasons. The Applicants therefore request that the Examiner issue a Notice of Allowance.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on January 4, 2001.


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MAIL DATE CANCELLED

